



In The United States Patent and Trademark Office

Application Number: 09/733,859

Examiner: Nguyen, Dustin

Applicant(s): Ching-Fang Lin

Group Art Unit: 2154

Filing Date: 12/08/2000

Title: Portable Multi-Tracking Method and System

Date: 04/20/2006

DECLARATION UNDER RULE 132

Honorable Commissioner for Patents,
P.O. Box 1450,
Alexandria, VA 22313-1450

Sir:

I, Ching-Fang LIN, hereby attest as follows:

I am the sole-named inventor of the above-identified U.S. Patent Application Serial No. 09/733,859, entitled "Portable Multi-Tracking Method and System" (the '859 application).

Commercial Success

My company has had contracts with the US ARMY and other government organizations embodying the subject of the '859 application. The coremicro Palm Navigator containing the "portable multi-tracking method and system" is contracted with the US ARMY and other government organizations. The sample awards are shown as follows:

(1) US ARMY ARDEC Contract No. W15QKN-04-C-1129: The cover page shows award date of August 26, 2004 and contract price. There are two units of coremicro Palm Navigators containing the "portable multi-tracking method and system" technology delivered to the US ARMY according to this contract on February 26, 2005, wherein one of them is delivered on July 26, 2005 and another one is delivered on November 25, 2005 to US ARMY ARDEC.

(2) Contract No. W15QKN-04-C-1129: Statement of Work shows the use and application of the "portable multi-tracking method and system" technology.

(3) US ARMY ARDEC Contract No. W15QKN-04-C-1003: The cover page shows award date of October 21, 2003 and contract price. There are three units of the coremicro Palm Navigators containing the "portable multi-tracking method and system" technology delivered to the US ARMY according to this contract on June 21, 2004, wherein one of them is delivered on May 23, 2005 to US ARMY ARDEC.

(4) The Final Software Users Manual of the US ARMY ARDEC Contract No. W15QKN-04-C-1003, Pages 1 and 2 (First delivered on Jan 4, 2004 and the final on Sept 2005) show the use and application of the technology of the '859 application.

(5) US ARMY ARDEC Contract No. W15QKN-06-C-0085: The cover page shows award date of January 06, 2006 and contract price. There are eight units to be delivered.

(6) Software Design Description of the US ARMY ARDEC Contract No. W15QKN-06-C-0085, Pages 1 and 2, shows the use and application of the technology of the '859 application.

(7) Software Product Specification of the US ARMY ARDEC Contract No. W15QKN-06-C-0085, Page 1, shows the use and application of the technology of the '859 application.

(8) US Marine Corps Contract No. M67854-00-C-0023: The cover page shows award date of October 01, 2001 and contract price.

(9) US Marine Corps Contract No. M67854-00-C-0023: Data Rights states the "Identification and Assertion of USE, Release, or Disclosure Restrictions for existing technology." Item No. 3 in "Technical data or Computer Software to be Furnished with Restriction" clearly shows the developed product is "Portable Multi-Tracking Processing" which is using 100% of the technology of the '859 application. There are five units of coremicro Palm Navigators containing the "portable multi-tracking method and system" technology delivered to the US Marine Corps according to this contract.

In my opinion, an important reason for the commercial success of the portable multi-tracking method and system is the structural configuration which has been expressed in the '859 application. Therefore, the subject matter of the portable multi-tracking method and system exhibits relative to others available in the market is an important reason for the commercial success of the portable multi-tracking method and system.

All statements made of my own knowledge are true and all statements made on information and believed to be true. I acknowledge that willful false statements and the like are punishable by fine, imprisonment, or both under 18 U.S.C. 1001 and may jeopardize the validity of the application or any patent issuing thereon.

By:



Ching-Fang Lin

Date: 4/18/06

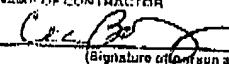
Attachment 1a

AWARD / CONTRACT		1. THIS CONTRACT IS BASED UPON UNDER DFAS (16 CFR 700)		RATING	PAGE OF PAGES
2. CONTRACT (Proc. Inst. Ident.) NO. W15QK04-C-1129		3. EFFECTIVE DATE 08/26/04	4. REQUISITION/PURCHASE REQUEST/PROJECT NO. 1A4SPJ-C-001-0001 / DSC		
5. ISSUED BY	CODE	W15QK04	6. ADMINISTERED BY (If other than Item 5)		CODE
US ARMY TACOM-ARDEC AMSTA-AQ-RFB, BLDG.9 PICATINNY ARSENAL NJ 07806		DODA LOS ANGELES BLDG 10 2ND FLOOR 16111 PLUMMER STREET SHERIDAN CA 91343			
Karen Carmouche 532 (973) 724-3968					
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, State and ZIP Code) AMERICAN GNC CORPORATION 888 WAYSIDE STREET SILICON VALLEY CA 93065				Vendor ID: 00002204	8. DELIVERY
				<input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)	9. DISCOUNT FOR PROMPT PAYMENT
				00.000% 000 Net 000	
				10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:	ITEM 12
CODE OK700	CODE U	11. PAYMENT WILL BE MADE BY DODA-COLUMBUS CENTER DFAS-CO/WEST ENTITLEMENT OPERATIONS P.O. BOX 182381 COLUMBUS OH 43218-2381 RFT: T			
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input checked="" type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 283(c)				14. ACCOUNTING AND APPROPRIATION DATA ACRN: AA 2142040000006N6N7PG65502M1055255YJPY111A43PJ6T1ANG444402028017 Award Oblig. Am. USA 384,466.00	
15A. ITEM NO.	15B. SUPPLIES/SERVICES See attached Schedule(s)	15C. QUANTITY	16D. UNIT	16E. UNIT PRICE	16F. AMOUNT
				15G. TOTAL AMOUNT OF CONTRACT \$ 384,466.00	

(X)	SEC.	DESCRIPTION	PAGE (S)	(X)	SEC.	DESCRIPTION	PAGE (S)
PART I - THE SCHEDULE							
X	A	SOLICITATION/CONTRACT FORM	1	I		CONTRACT CLAUSES	
X	B	SUPPLIES OR SERVICES AND PRICE/COSTS	2			PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.	
C		DESCRIPTION/SPECS./WORK STATEMENT		J		LIST OF ATTACHMENTS	
D		PACKAGING AND MARKING				PART IV - REPRESENTATIONS AND INSTRUCTIONS	
E		INSPECTION AND ACCEPTANCE		K		REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	
F		DELIVERIES OR PERFORMANCE		L		INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS	
G		CONTRACT ADMINISTRATION DATA		M		EVALUATION FACTORS FOR AWARD	
H		SPECIAL CONTRACT REQUIREMENTS					

CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE

17. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return copies to issuing office.) Contractor agrees to furnish and deliver all (items or perform all the services set forth) or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract are subject to and governed by the following documents: (a) this award / contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)	18. <input type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number including the addendum or changes made by you which addendum or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheet(s). This award documents the contract which consists of the following document(s): (a) the Government's solicitation and your offer, and (b) this award / contract. No further contractual documents are necessary.
--	--

19. NAME AND TITLE OF SIGNER (Type or print) Decile B. Huling, Controller NAME OF CONTRACTOR  (Signature of person authorized to sign)	20A. NAME OF CONTRACTING OFFICER Donna M. Apgar K78 (973) 724-3271 20B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	20C. DATE SIGNED 9-15-04 BY 26-106	20D. DATE SIGNED 9-20-04
---	--	--	-----------------------------

7540-01-152-8009
10/03 EDITION UNUSABLE

CONTINUATION SHEET

W150KN-04-C-1129

Page 6 of 67

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 STATEMENT OF WORK

The contractor's proposal entitled "Multi-Agent Information Fusion and Decision Aid for Future Combat System", proposal number A2-1654, is the scope of work for this contract. Because of proprietary information contained within the proposal, it is attached by reference only.

Attachment 1b

Attachment 2a

AWARD / CONTRACT		S CONTRACT IS A RATED ORDER UNDER DPAS (16 CFR 700)		RATE	PAGE OF PAGES doc9e 1 71	
2. CONTRACT (Proc. Inst. Ident.) NO. W15QKN-04-C-1003		3. EFFECTIVE DATE 10/21/03		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. 1A3CFJ-6J1A-NG01 / D1S		
5. ISSUED BY US ARMY TACOM-ARDEC AMSTA-AQ-APG, BLDG 9 PICATINNY ARSENAL NJ 07806-5000		6. ADMINISTERED BY (If other than Item 5) Karen Carmean 832 (973) 724-3968		CODE b0512a		
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, State and ZIP Code) AMERICAN GNC CORPORATION 888 EASY STREET SIMI VALLEY CA 93065		Vendor ID: 00002204		8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)		
				9. DISCOUNT FOR PROMPT PAYMENT 00.000% 000 Net 030		
				10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: 12		
CODE OK700		FACILITY CODE u		CODE b0339		
11. SHIP TO/MARK FOR		12. PAYMENT WILL BE MADE BY DPAS-COLUMBUS CENTER DPAS-CO/WEST ENTITLEMENT OPERATIONS P.O. BOX 182381 COLUMBUS OH 43218-2381		BPT: T		
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input checked="" type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 253(c)		14. ACCOUNTING AND APPROPRIATION DATA ACRN: AA 213204000036D6D03665502M4055255YPUYA11A3CFJ6J1ANG344521028017 Award Oblig Amt US\$ 363,453.00				
15A. ITEM NO.	15B. SUPPLIES/SERVICES See attached Schedule(s)		15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
		15G. TOTAL AMOUNT OF CONTRACT \$ 363,453.00				
16. TABLE OF CONTENTS						
(X) SEC.	DESCRIPTION	PAGE (S)	(X) SEC.	DESCRIPTION	PAGE (S)	
PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES		
X A	SOLICITATION/CONTRACT FORM	1	I	CONTRACT CLAUSES		
X B	SUPPLIES OR SERVICES AND PRICES/COSTS	2	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
C	DESCRIPTION/SPECS./WORK STATEMENT		J	LIST OF ATTACHMENTS		
D	PACKAGING AND MARKING		PART IV - REPRESENTATIONS AND INSTRUCTIONS			
E	INSPECTION AND ACCEPTANCE		K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS		
F	DELIVERIES OR PERFORMANCE		L	INSTRS., CONDS., AND NOTICES TO OFFERORS		
G	CONTRACT ADMINISTRATION DATA		M	EVALUATION FACTORS FOR AWARD		
H	SPECIAL CONTRACT REQUIREMENTS					
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE						
7. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award / contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)			18. <input type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number Including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award / contract. No further contractual documents are necessary.			
NAME AND TITLE OF SIGNER (Type or print) Sandee Baker, Director of Contract Administration			20A. NAME OF CONTRACTING OFFICER Edward A. Cuda K48 (973) 724-2186			
18B. NAME OF CONTRACTOR BY <u>Sandee Baker</u> (Signature of person authorized to sign)		18C. DATE SIGNED 10/23/03	20B. UNITED STATES OF AMERICA BY <u>Edward A. Cuda</u> (Signature of Contracting Officer)		20C. DATE SIGNED 10/27/03	

Attachment 2b

**An SBA Certified Small Disadvantaged Business****Reusable GPS/IMU/EO/RF/Laser Realtime Componentized Testbed
for Future Combat System****Software Users Manual*****PREPARED FOR:***

U.S. ARMY ARMAMENT RESEARCH,
DEVELOPMENT AND ENGINEERING CENTER
PICATINNY, NJ 07806
PHONE: (973) 724-6279
FAX: (973) 724-7279

ATTN: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]***PREPARED BY:***

AMERICAN GNC CORPORATION
888 EASY STREET
SIMI VALLEY, CA 93065
PHONE: (805) 582-0582
FAX: (805) 582-0098

Email: engineering@americangnc.com**Contract Number: W15QKN-04-C-1003****September 2005**

DISTRIBUTION STATEMENT B - DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES ONLY (CONTAINS PROPRIETARY INFORMATION). OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO THE UNITED STATES ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER, AND AMERICAN GNC CORPORATION, 888 EASY STREET, SIMI VALLEY, CA 93065-1812.

THESE SBIR DATA ARE FURNISHED WITH SBIR RIGHTS UNDER CONTRACT NO. W15QKN-04-C-1003 FOR A PERIOD OF 4 YEARS AFTER ACCEPTANCE OF ALL ITEMS TO BE DELIVERED UNDER THIS CONTRACT. THE GOVERNMENT AGREES TO USE THESE DATA FOR GOVERNMENT PURPOSE ONLY, AND THEY SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT (INCLUDING DISCLOSURE FOR PROCUREMENT PURPOSE) DURING SUCH PERIOD WITHOUT PERMISSION OF THE CONTRACTOR, EXCEPT THAT, SUBJECT TO THE FOREGOING USE AND DISCLOSURE PROHIBITIONS, SUCH DATA MAY BE DISCLOSED FOR USE BY SUPPORT CONTRACTORS. AFTER THE AFORESAID 4-YEAR PERIOD THE GOVERNMENT HAS A ROYALTY-FREE LICENSE TO USE, AND TO AUTHORIZE OTHERS TO USE ON ITS BEHALF, THESE DATA FOR GOVERNMENT PURPOSE, BUT IS RELIEVED OF ALL DISCLOSURE PROHIBITIONS AND ASSUMES NO LIABILITY FOR UNAUTHORIZED USE OF THESE DATA BY THIRD PARTIES. THIS NOTICE SHALL BE AFFIXED TO ANY REPRODUCTIONS OF THESE DATA, IN WHOLE OR IN PART.

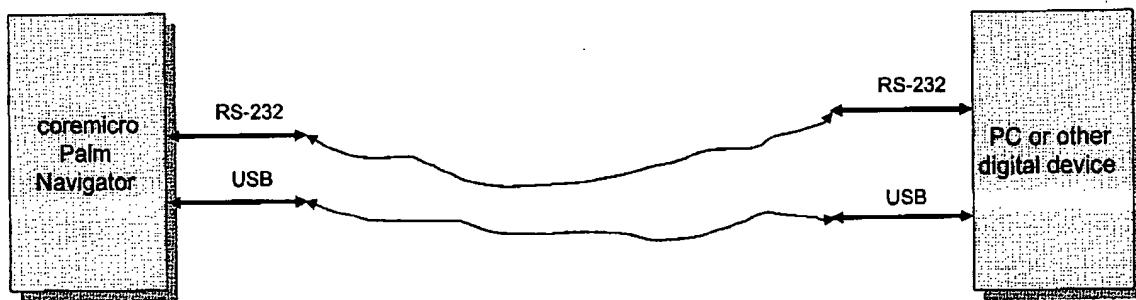
252.227-7013 RIGHTS IN TECHNICAL DATA—NONCOMMERCIAL ITEMS: LINUX API FOR RS-232 AND USB.

American GNC Corporation Proprietary Information

Software Users Manual

The system software resides in the robot's onboard computer, or in the host computer, or in a PC for a test system. Its functions are to control the operation of the whole robot system, such as communication with the coremicro Palm Navigator 3, guidance and control of the robot.

One of the functions of the software is to control the operation of the coremicro Palm Navigator 3 through a USB port or a RS232 port, as shown in the following figure. The software will be first developed in Windows and converted to Linux later.



Included in this software are a suite of APIs (application program interface) that can be used by the customer for applying the coremicro Palm Navigator 3 in other applications.

As the project proceeds, more functions will be added to the software and this document will be updated every 6 months.

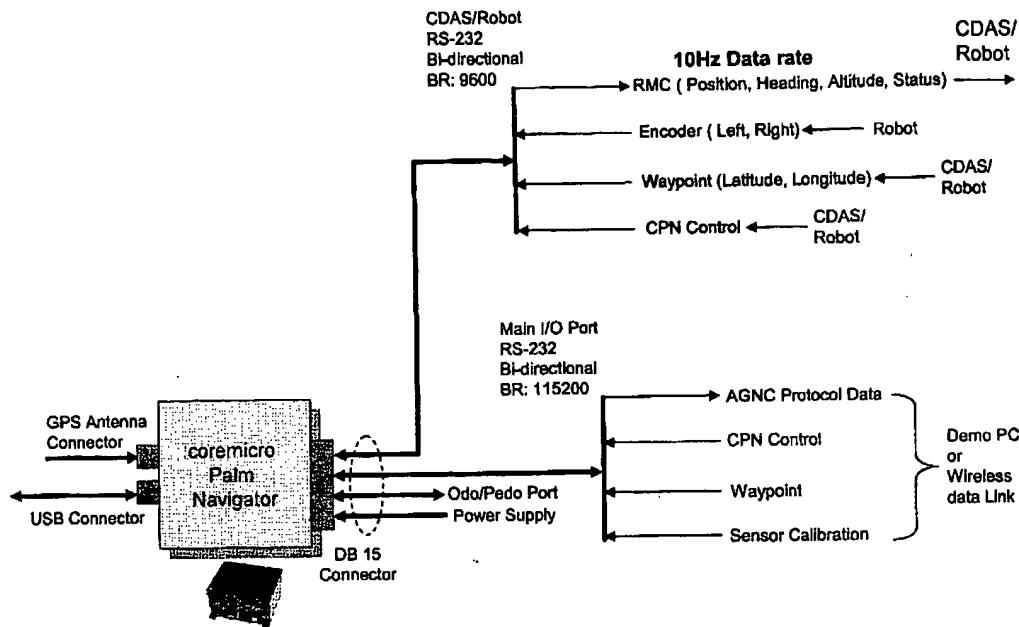
American GNC Corporation Proprietary Information

Figure 0-1 Interface Functions of the coremicro Palm Navigator

Figure 0-1 depicts a summary of the current interface functions of the coremicro Palm Navigator. The user can use either the CDAS/Robot port or the main I/O port for data communication, unit control, or system calibration.

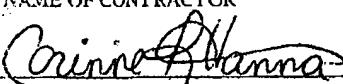
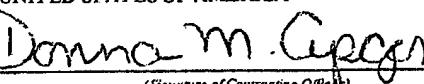
RMC output format

The following are RMC message samples.

```
$GPRMC,184141,A,3400.0002,N,11800.0034,W,,331.3,150905,013.1,W,0,0122.2*7F\r\n
$GPRMC,184141,A,3400.0002,N,11800.0035,W,,332.9,150905,013.1,W,0,0122.8*7D\r\n
$GPRMC,184141,A,3400.0002,N,11800.0035,W,,331.3,150905,013.1,W,0,0122.8*74\r\n
```

It can be seen that the range of the heading is from 0 to 359.9 degrees. The leading zero is sent, so that the heading field is always 5 chars. This is easier for the decoding programming. The heading field is valid even when the GPS validity field is a "V". The heading field is valid as long as it is a valid decimal digital string. If it is not a decimal digital string, it is then used as an indicator of the system status.

Attachment 3a

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER FARS (15 CFR 350)			RATING DO-C9	PAGE OF PAGES 1 36	
2. CONTRACT (Proc. Inst. Ident.) NO. W15QKN-06-C-0085		3. EFFECTIVE DATE 06 Jan 2006		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. SAP6000010636			
5. ISSUED BY PICATINNY CTR FOR CONTRACTING & COMMERCE US ARMY AM STA-AQ-APB PHIPS ROAD, BLDG 9 PICATINNY NJ 07806-5000		CODE W15QKN		6. ADMINISTERED BY (If other than Item 5) DCMA LOS ANGELES P. O. BOX 9608 MISSION HILLS CA 91346-9608		CODE S0512A	
7. NAME AND ADDRESS OF CONTRACTOR (No. street, city, county, state and zip code) AMERICAN GNC CORP. 101 EASY STREET VALLEY CA 93065				8. DELIVERY [] FOB ORIGIN [X] OTHER (See below)			
				9. DISCOUNT FOR PROMPT PAYMENT Net 30 Days			
				10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM 1 Block 12	
DE OK700 SHIP TO/MARK FOR		FACILITY CODE		12. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER WEST DFAS-COMWEST ENTITLEMENT OPERATIONS P.O. BOX 102381 COLUMBUS OH 43218-2381		CODE HQ0339	
See Schedule							
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: [] 10 U.S.C. 2304(c) [] 41 U.S.C. 253(c)				14. ACCOUNTING AND APPROPRIATION DATA See Schedule			
15A. ITEM NO.	15B. SUPPLIES/ SERVICES		15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT	
SEE SCHEDULE							
15G. TOTAL AMOUNT OF CONTRACT							\$399,949.00
16. TABLE OF CONTENTS							
(Y) SEC.	DESCRIPTION	PAGE(S)	(X) SEC.	DESCRIPTION	PAGE(S)		
PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES			
X	A SOLICITATION/ CONTRACT FORM	1 - 2	X	I CONTRACT CLAUSES			16 - 36
X	B SUPPLIES OR SERVICES AND PRICES/ COSTS	3 - 5	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS				
X	C DESCRIPTION/ SPECS/ WORK STATEMENT	6	J	LIST OF ATTACHMENTS			
D	PACKAGING AND MARKING		PART IV - REPRESENTATIONS AND INSTRUCTIONS				
X	E INSPECTION AND ACCEPTANCE	7	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS			
X	F DELIVERIES OR PERFORMANCE	8	L	INSTRS, CONDS, AND NOTICES TO OFFERORS			
X	G CONTRACT ADMINISTRATION DATA	9 - 10	M	EVALUATION FACTORS FOR AWARD			
X	H SPECIAL CONTRACT REQUIREMENTS	11 - 15					
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE							
<input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT Contractor is required to sign this document and return copies to issuing office. Contractor agrees to furnish and deliver all or perform all the services set forth or otherwise identified above and on any continuation or addendum or addenda to this document. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, solicitation, if any, and (c) such provisions, representations, certifications, and specifications, attached or incorporated by reference herein. (b) any addendum or addenda to this document.				18.1 AWARD (Contractor is not required to sign this document) Your offer on Solicitation Number W15QKN-06-R-8202 Including the addenda or changes made by you which addenda or changes are set forth in full above, is hereby accepted as the items listed above and on any continuation sheets. This award constitutes the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.			
19. NAME AND TITLE OF SIGNER (Type or print) Corinne R. Hanna Director of Contracts				20A. NAME AND TITLE OF CONTRACTING OFFICER TEL: EMAIL:			
20B. NAME OF CONTRACTOR		19C. DATE SIGNED	20B. UNITED STATES OF AMERICA		20C. DATE SIGNED		
BY 		01/11/2006 BY 	(Signature of Contracting Officer)		1-12-06		

Attachment 3b



An SBA Certified Small Disadvantaged Business

Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System

Software Design Description (Draft)

PREPARED FOR:

U.S. ARMY ARMAMENT RESEARCH,
DEVELOPMENT AND ENGINEERING CENTER
PICATINNY, NJ 07806
PHONE: (973) 724-6279
FAX: (973) 724-7279

ATTN: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]***PREPARED BY:***

AMERICAN GNC CORPORATION
888 EASY STREET
SIMI VALLEY, CA 93065
PHONE: (805) 582-0582
FAX: (805) 582-0098
Email: engineering@americangnc.com

Contract Number: W15QKN-06-C-0085
April 2006

DISTRIBUTION STATEMENT B - CONTAIN PROPRIETARY INFORMATION. DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES ONLY. OTHER REQUESTS FOR THIS DOCUMENT MUST BE REFERRED TO US ARMY ARDEC AND AMERICAN GNC CORPORATION, 888 EASY STREET, SIMI VALLEY, CALIFORNIA 93065.

THESE SBIR DATA ARE FURNISHED WITH SBIR RIGHTS UNDER CONTRACT NO. W15QKN-06-C-0085 FOR A PERIOD OF 4 YEARS AFTER ACCEPTANCE OF ALL ITEMS TO BE DELIVERED UNDER THIS CONTRACT. THE GOVERNMENT AGREES TO USE THESE DATA FOR GOVERNMENT PURPOSE ONLY, AND THEY SHALL NOT BE DISCLOSED OUTSIDE THE GOVERNMENT (INCLUDING DISCLOSURE FOR PROCUREMENT PURPOSE) DURING SUCH PERIOD WITHOUT PERMISSION OF THE CONTRACTOR, EXCEPT THAT, SUBJECT TO THE FOREGOING USE AND DISCLOSURE PROHIBITIONS, SUCH DATA MAY BE DISCLOSED FOR USE BY SUPPORT CONTRACTORS. AFTER THE AFORESAID 4-YEAR PERIOD THE GOVERNMENT HAS A ROYALTY-FREE LICENSE TO USE, AND TO AUTHORIZE OTHERS TO USE ON ITS BEHALF, THESE DATA FOR GOVERNMENT PURPOSE, BUT IS RELIEVED OF ALL DISCLOSURE PROHIBITIONS AND ASSUMES NO LIABILITY FOR UNAUTHORIZED USE OF THESE DATA BY THIRD PARTIES. THIS NOTICE SHALL BE AFFIXED TO ANY REPRODUCTIONS OF THESE DATA, IN WHOLE OR IN PART.

252.227-7013 RIGHTS IN TECHNICAL DATA—NONCOMMERCIAL ITEMS: SYSTEM CONTROL API FOR RS-232 AND USB PORTS OF THE COREMICRO PALM NAVIGATOR.

American GNC Corporation Proprietary Information

Software Design Description (Draft)

This Software Design Description establishes the software design for the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System" project. In this project, multiple coremicro® Palm Navigator units will be used in the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System". A software system --- System Control Software --- will be implemented, updated and used as a test and evaluation tool for the project, as shown in Figure 1. The main functions of this System Control Software include: support test and demonstration of the coremicro® Palm Navigator units, provide user interface for the units, data display and storage, support integration test with CDAS, demonstration and monitoring, and in-field system data exchange, etc.

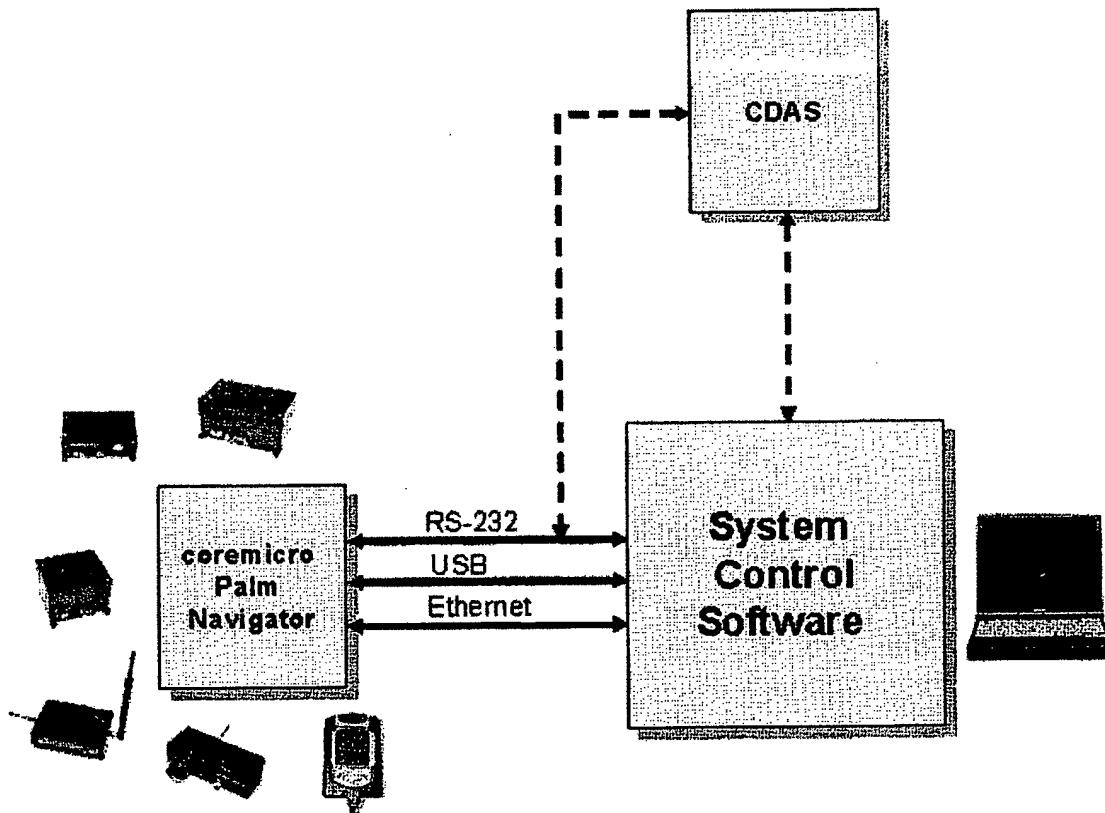
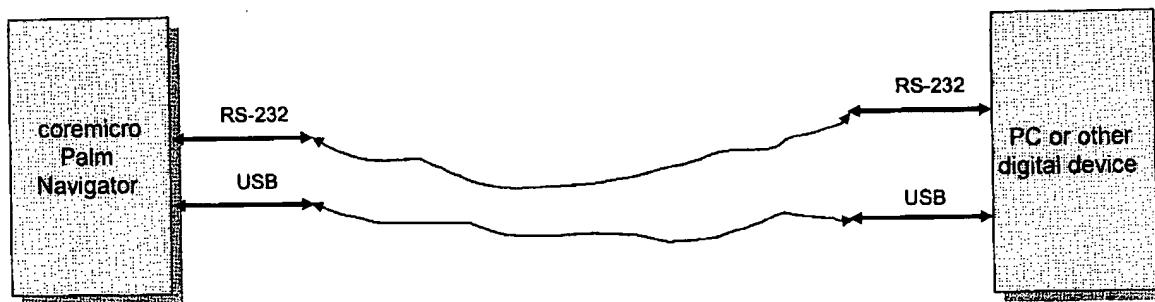


Figure 1 Application of the System Control Software

American GNC Corporation Proprietary Information

The system software resides in the robot's onboard computer, or in the host computer, or in a PC for a test system. Its functions are to control the operation of the whole robot system, such as communication with the coremicro Palm Navigator, guidance and control of the robot.

One of the functions of the software is to control the operation of the coremicro Palm Navigator 3 through a USB port or a RS232 port, as shown in the following figure. The software will be first developed in Windows and converted to Linux later.



Included in this software are a suite of APIs (application program interface) that can be used by the customer for applying the coremicro Palm Navigator 3 in other applications.

As the project proceeds, more functions will be added to the software and this document will be updated every 6 months.

Multiple Tracking Software

The PC based multiple tracking software has been used for coremicro Palm Navigator demonstration. The configuration of the RF data link was improved to increase the tracking range of the system. An interface was added to the coremicro Palm Navigator that can send the position data to a map system and display the unit position on the map in real-time.

The Improvements of PC based multiple tracking software include:

- The display has zoom-in and zoom-out functions for tracking display.

Attachment 3c

**An SBA Certified Small Disadvantaged Business****Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System**

Software Product Specification (Draft)

PREPARED FOR:

**U.S. ARMY ARMAMENT RESEARCH,
DEVELOPMENT AND ENGINEERING CENTER
PICATINNY, NJ 07806
PHONE: (973) 724-6279
FAX: (973) 724-7279**

ATTN: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

PREPARED BY:

**AMERICAN GNC CORPORATION
888 EASY STREET
SIMI VALLEY, CA 93065
PHONE: (805) 582-0582
FAX: (805) 582-0098**

**Contract Number: W15QKN-06-C-0085
April 2006**

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252.227-7013 RIGHTS IN TECHNICAL DATA—NONCOMMERCIAL ITEMS: SYSTEM CONTROL API FOR RS-232 AND USB PORTS OF THE COREMICRO PALM NAVIGATOR.

American GNC Corporation Proprietary Information

Software Product Specification (Draft)

This Software Design Description establishes the Software Product Specification for the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System" project. In this project, multiple coremicro® Palm Navigator units will be used in the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System". A software system --- System Control Software --- will be implemented, updated and used as a test and evaluation tool for the project. As shown in Figure 1, the AGNC coremicro® Palm Navigator systems can be used in a wide range of applications, such as, personnel/soldier tracking, fixed wing UAVs, helicopters, robots, cars and other unmanned ground vehicles.

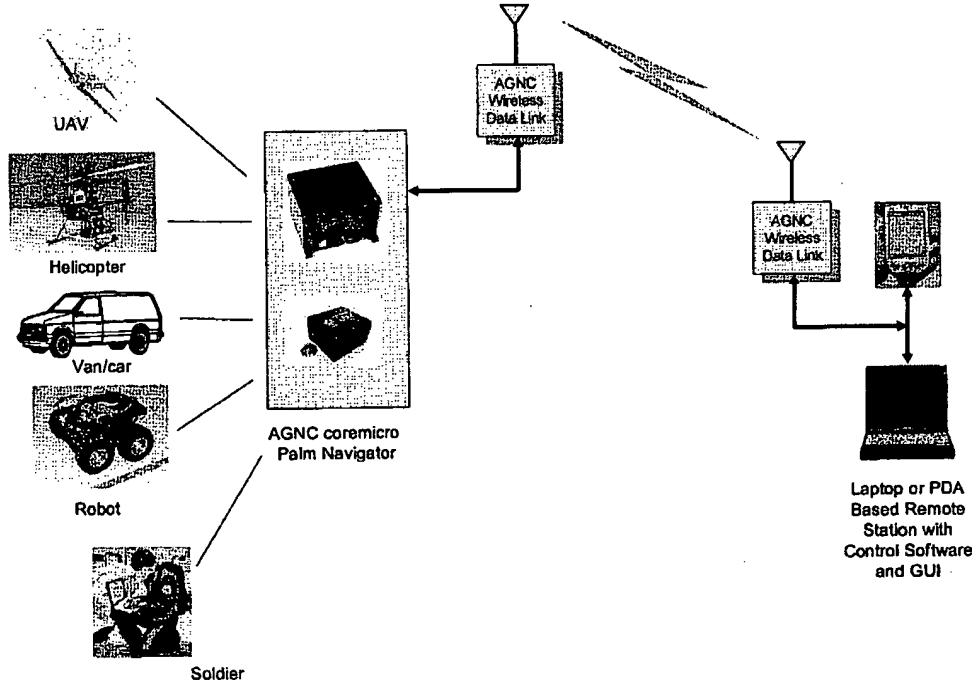


Figure 1 The coremicro Palm Navigator Demonstration System with AGNC RF Data Link

1 Data Exchange

Attachment 4a

10/01/01 MON 14:52 FAX 703 784 1274
09/22/01 13:20 FAX 8055820098
09/21/01 FRI 10:38 FAX 703 784 1274

MARNBC CONTRACTS
AMERICAN GNC CORP.
MARNBC CONTRACTS

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AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER OPAS (15 CFR 350)		RATING C9-E	PAGE OF PAGES 1 17		
CONTRACT (Proc. Inst. Item.) NO. M167854-01-C-3070		3. EFFECTIVE DATE OCT 01 2001	4. REQUISITION/PURCHASE REQUEST/PROJECT NO. M9545001RCRCL1BV8				
5. ISSUED BY MARCORSYSCOM CTQ 3B2 2033 Barnes Avenue, STE 315 Quantico VA 22134-5010 POC Benjamin Zaslow 703-784-5898 x4-3070 e-mail: zaslowb@mcsc.usmc.mil		CODE M67854	6. ADMINISTERED BY (If other than Item 5) DCMA Van Nuys 6230 Van Nuys Blvd Van Nuys CA 91401-2713 June Erwin: 805-715-7771		CODE (S05)2A <i>DAV</i>		
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, State and Zip Code) American GNC Corporation 9131 Mason Ave Chatsworth CA 91311							
8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER <i>see below</i>							
9. DISCOUNT FOR PROMPT PAYMENT N/A							
10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN See Block 12, and Sections E.1 & G.3(f)							
CODE 0k700		FACILITY CODE		CODE H00339			
11. SHIP TO/MARK FOR See sections D & F		CODE		12. PAYMENT WILL BE MADE BY DPAS - Columbus Center DPAS - CO/West Enditlement Operations P.O. Box 182381 Columbus OH 43218-2381 (see also G.2)			
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION <input type="checkbox"/> 10 U.S.C 2304 (c) <input type="checkbox"/> 41 U.S.C 253 (c)							
14. ACCOUNTING AND APPROPRIATION DATA See Section G.1							
15A. ITEM NO.		15B. SUPPLIES/SERVICES SEE SECTION B		15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
15G. TOTAL AMOUNT OF CONTRACT						\$ 300,000.00	

SEE SECTION B

15G. TOTAL AMOUNT OF CONTRACT → \$ 300,000.00

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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE

17. **CONTRACTOR'S NEGOTIATED AGREEMENT** (Contractor is required to sign this document and return it to the City's business office.)
Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documentation: (a) this award contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed heron.)

18. AWARD (Contractor (s) not required to sign this document) Your offer on Schedule Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheet. This award constitutes the contract which consists of the following documents (a) the Government's schedule and your offer and (b) this award/contract. No further contractual document necessary.

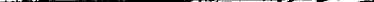
Attachments are listed below.

~~PRINT NAME OF CONTRACTING OFFICER~~

Ching-Fang Lin, President

Peter A. Stabile, USMC

1981 NAME OF CONTRIBUTOR
BY John Farny *(Signature of person authorized to sign)*

FEDERAL BUREAU OF INVESTIGATION U.S. DEPARTMENT OF JUSTICE 208, UNITED STATES OF AMERICA		REC'D DATE SIGNED OCT 01 2001
BY	 <small>SIGNATURE of Contracting Officer</small>	

NSN 7540-01-152-8069
PREVIOUS EDITION UNUSABLE

09/24/01 13:33 FAX 8055820098

MANUFACTURER'S
CONTRACTS
AMERICAN GNC CORP

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Attachment 4b

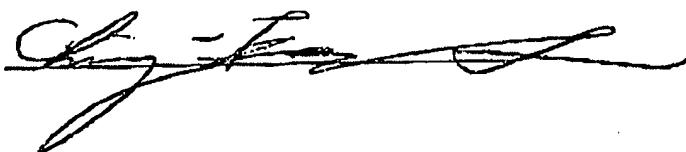
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The offeror asserts for itself, or the persons identified below, that the Government's right to use, release, or disclose the following technical data or software should be restricted.

Technical Data or Computer Software To be Furnished With Restrictions		Basis for Assertion	Asserted Rights Category	Name of Person Asserting Restrictions
1 coremicro [®] Navigator Products	<p>AGNC[®]-2000 CMIMU/GPS PALM NAVIGATOR[™] GSA No. GS-24F-0014K</p> <p>Self-Contained/Interruption-Free Positioning Method and System Thereof</p> <p>Interruption-Free Hand-Held Positioning Method and System Thereof</p> <p>Method of Converting Geospatial Database into Compressive Database for Multiple Dimensional Data Storage</p> <p>Enhanced Inertial Measurement Unit/Global Positioning System Mapping and Navigation</p>	Developed Exclusively at Private Expense	Restricted Rights	Ching-Fang Lin, PhD
2 REALTIME [™] SIMULATOR Products	<p>AGNC[®]-2000 RTGIS GPS/IMU REALTIME[™] Simulator GSA No. GS-24F-0014K</p> <p>Process and System of Coupled REALTIME[™] GPS/IMU Simulation with Differential GPS</p>	Developed Exclusively at Private Expense	Restricted Rights	Ching-Fang Lin, PhD
3 Data Exchange and Visualization Products	<p>Portable Multi-tracking Method and System</p> <p>Networked Position Multiple Tracking Processing</p>	Developed Exclusively at Private Expense	Restricted Rights	Ching-Fang Lin, PhD

DATE: September 21, 2001Printed Name and Title Ching-Fang Lin, PhD
President

Signature



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